

CLAIMS

1. An integrated circuit comprising:  
a test circuit configured to generate a test signal  
having a predetermined pulse width in response to a control input,  
B1 wherein said test signal tracks process corners and can be used to  
5 predict a failure of said integrated circuit.

Sub C1 2. The integrated circuit according to claim 1, wherein  
said control input comprises a write enable input.

3. The integrated circuit according to claim 2, wherein  
said control input comprises a transition of a write enable input.

4. The integrated circuit according to claim 3, wherein  
said transition is from a HIGH logic level to a LOW logic level.

5. The integrated circuit according to claim 1, wherein  
said pulse width is user definable.

6. The integrated circuit according to claim 5, wherein said pulse width is determined in response to one or more configuration inputs.

7. The integrated circuit according to claim 6, wherein said configuration inputs are fuse programmable.

8. The integrated circuit according to claim 6, wherein said configuration inputs are determined by a metal masking step during fabrication.

9. The integrated circuit according to claim 1, wherein said integrated circuit comprises a static random access memory.

10. The integrated circuit according to claim 9, wherein said test circuit is configured to predict a failure of one or more memory cells.

11. An integrated circuit comprising:  
means for generating a test signal in response to a control input; and

means for predicting failure of part or all of said  
5 integrated circuit in response to said test signal.

*12*  
*Cont*  
12. A method for predicting failure of an integrated circuit prior to life testing comprising the steps of:

- (A) entering a test mode;
- (B) measuring an operation of said integrated circuit in response to a test signal generated on said integrated circuit; and
- (C) detecting failure of said operation.

*Sub C1*  
13. The method according to claim 12, wherein said operation comprises a write operation.

14. The method according to claim 12, wherein said test signal is a write pulse.

15. The method according to claim 14, wherein said write pulse has a pulse width determined by a data setup to write end time of the integrated circuit.

16. The method according to claim 12, wherein the steps (A) - (C) are performed prior to life testing.

17. The method according to claim 12, further comprising the step of:  
(D) sorting said integrated circuits in response to said failure.

18. The method according to claim 17, further comprising the step of:  
(E) repairing said integrated circuit.

19. The method according to claim 12, wherein said failure comprises a poor contact in cross-coupled latch transistors of a memory cell.

20. The method according to claim 12, wherein step (A) comprises the sub-steps of:

(A-1) applying a first high voltage to an address pin of said integrated circuit;

5  
21  
Com

5

of said integrated circuit; and

(A-3) ~~removing~~ said first high voltage from said

~~address pin.~~

Ald  
By

[illegible]